

1008 Rec'd PCT/PTO 05 FEB 2001
PCT #11 Dec
11/13/01

RECEIVED
TECH CENTER 1600/2900
NOV 08 2001
11/13/01

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

FUKUMURA, et al.

Serial No.: 09/720,979

Filed: January 8, 2001

For: NEGATIVE-SENSE RNA VIRUS
VECTOR FOR NERVE CELL



Art Unit: To Be Assigned

Examiner: To Be Assigned

Atty. Docket: 4001-0003

PRELIMINARY AMENDMENT

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

Prior to examination of the above-identified application, Applicants herewith respectfully request the following amendments:

IN THE SPECIFICATION:

On page 14, line 14, change "sigma" to --lambda--.

On page 18, line 29, change "37.5°C" to --38°C to 38.5°C--.

On page 19, line 25, change "37°C" to --38°C to 38.5°C--.

On page 19, line 29, change "hindbrain" to --brain region containing hippocampus--.

IN THE CLAIMS:

5. [A] The method of [any one of] claim[s] 1 [to 4], wherein nucleic acid contained in the negative-sense RNA viral vector comprises a foreign gene.

02

13. [A] The method of [any one of] claim[s] 1 [to 12], wherein said negative sense RNA virus belongs to the Paramyxoviridae family.

03

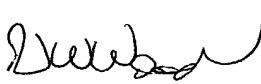
15. A negative-sense RNA viral vector used for transferring nucleic acid into nerve cells by the method of [any one of] claim[s] 1 [to 14].

REMARKS

It is respectfully requested that the Examiner enter these amendments prior to examining the application on its merits.

Respectfully submitted,

SHANKS & HERBERT

By: 

David W. Woodward
Reg. No. 35,020

Date: Feb 5 2021

TransPotomac Plaza
1033 N. Fairfax Street
Suite 306
Alexandria, VA 22314
(703) 683-3600



U. S. PATENT AND TRADEMARK OFFICE

12 NOV 2002 29 MAR 2002

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Fukumura *et al.*

Art Unit: 1636

Appl. No: 09/720,979 (U.S. National Stage of
PCT/JP99/03552)

Examiner: to be assigned

International Filing Date: July 1, 1999

Atty. Docket: 4001-0003

For: **Negative-Sense RNA Virus Vector for
Nerve Cell**

Second Preliminary Amendment

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

Prior to examination of the above-identified application, Applicants respectfully request the following amendments:

Amendments

In the Specification:

On page 7, please replace the paragraph at lines 8-12 with the following paragraph:

Figure 1 schematically shows a method for constructing the replication competent SeV comprising a foreign gene, such as for GFP or β -glucuronidase. Using primer 1 (SEQ ID NO:1), which has a *NotI* site, and primer 2 (SEQ ID NO:2), which comprises, a transcription termination signal (R2), an intervening sequence (IG), a transcription initiation sequence (R1) and a *NotI* site, the ORF of a foreign gene is amplified by PCR and inserted into the *NotI* site of pUC18/T7HVJRz.DNA (+18) (SEQ ID NO:3).

Appl. No: 09/720,979
(U.S. National Stage of PCT/JP99/03552)
Atty. Dkt. No: 4001-0003

Remarks

Entry of the above amendments to the specification is respectfully requested. The amendments incorporate the sequence identification numbers into the specification and thus, no new matter has been added. A marked-up version of page 7, lines 8-12, of the specification indicating the additions to the paragraph therein is attached hereto.

This application is now in condition for examination. If the Examiner has any questions or comments, the Examiner is requested to contact the undersigned at the telephone number below.

Respectfully submitted,

SHANKS & HERBERT

By: Kristin K. Vidovich
Kristin K. Vidovich
Reg. No. 41,448

Date: March 29, 2002

TransPotomac Plaza
1033 N. Fairfax Street
Suite 306
Alexandria, VA 22314
(703) 683-3600

Marked-Up Version of the Amendments

In the specification, paragraph on page 7, lines 8-12:

Figure 1 schematically shows a method for constructing the replication competent SeV comprising a foreign gene, such as for GFP or β -glucuronidase. Using primer 1 (SEQ ID NO:1), which has a *NotI* site, and primer 2 (SEQ ID NO:2), which comprises, a transcription termination signal (R2), an intervening sequence (IG), a transcription initiation sequence (R1) and a *NotI* site, the ORF of a foreign gene is amplified by PCR and inserted into the *NotI* site of pUC18/T7HVJRz.DNA (+18) (SEQ ID NO:3).

SEQUENCE LISTING



<110> Fukumura, Masayuki
Asakawa, Makoto
Hasegawa, Mamoru

<120> Negative-Sense RNA Virus Vector for Nerve Cell

<130> 4001-0003

<140> 09/720,979

<141> 2001-03-07

<150> PCT/JP99/03552

<151> 1999-07-01

<150> JP 10/204333

<151> 1998-07-03

<160> 3

<170> PatentIn version 3.1

<210> 1

<211> 14

<212> DNA

<213> Unknown

<220>

<223> Primer Sequence

<400> 1

tacgcggccg cagc

14

<210> 2

<211> 49

<212> DNA

<213> Unknown

<220>

<223> Primer Sequence

<400> 2

gcaccgtagt aagaaaaact tagggtgaaa gttcatcgcg gccgcggta

49

<210> 3

<211> 19

<212> DNA

<213> SeV transcription Unit pUC18/T7HVJRz.DNA (+18)

<400> 3

gcggccgcag atcttcacg

19